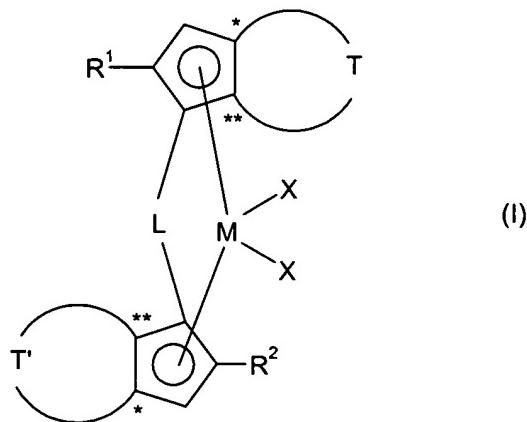


ATTACHMENT A

Claims 1 - 15: (Cancelled)

16. (New) A process for preparing a catalyst solid for olefin polymerization comprising a finely divided support, an aluminoxane, a metallocene compound product, and an organometallic compound, wherein the process comprises

- combining the finely divided support with the aluminoxane to form a modified support, and subsequently
- reacting a metallocene compound of formula (I),



where

M is zirconium, hafnium or titanium;

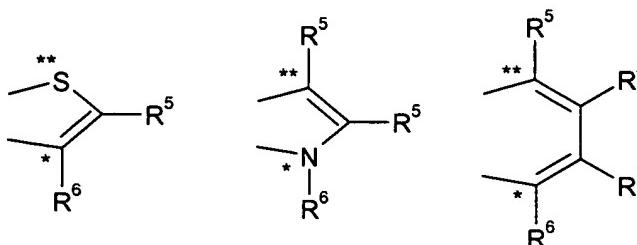
X are identical or different and are each, independently of one another, hydrogen or halogen or a group -R, -OR, -OSO₂CF₃, -OCOR, -SR,

-NR₂ or -PR₂, where R is linear or branched C₁-C₂₀-alkyl, C₃-C₂₀-cycloalkyl which may bear one or more C₁-C₁₀-alkyl radicals as substituents, C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl and may contain one or more heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or one or more unsaturated bonds, with the two radicals X also being able to be joined to one another;

L is a divalent bridging group selected from the group consisting of C₁-C₂₀-alkylidene, C₃-C₂₀-cycloalkylidene, C₆-C₂₀-arylidene, C₇-C₂₀-alkylarylidene and C₇-C₂₀-arylalkylidene radicals which may contain heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or is a silylidene group having up to 5 silicon atoms;

R¹ and R² are identical or different and are each, independently of one another, hydrogen or linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl which may bear one or more C₁-C₁₀-alkyl radicals as substituents, C₆-C₂₀-aryl, C₇-C₄₀-alkylaryl or C₇-C₄₀-arylalkyl and may contain one or more heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or one or more unsaturated bonds;

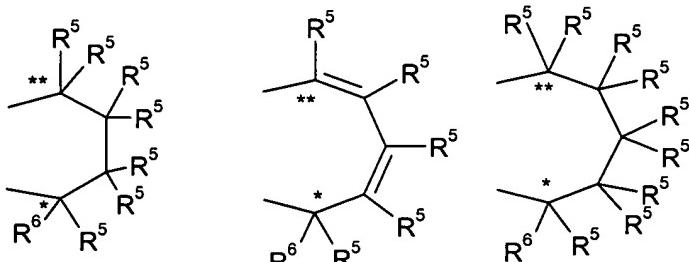
T and T' are divalent groups of the formulae (II), (III), (IV), (V), (VI) or (VII),



(II)

(III)

(IV)



(V)

(VI)

(VII)

where

the atoms denoted by the symbols * and ** are in each case joined to the atoms of the compound of the formula (I) which are denoted by the same symbol; and

R^5 and R^6 are identical or different and are each, independently of one another, hydrogen or halogen or linear or branched C_1-C_{20} -alkyl or C_3-C_{20} -cycloalkyl which may bear one or more C_1-C_{10} -alkyl radicals as substituents, C_6-C_{40} -aryl, C_7-C_{40} -alkylaryl or C_7-C_{40} -arylalkyl and may contain one or more heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or one or more unsaturated bonds or two radicals R^5 or

R⁵ and R⁶ are joined to one another to form a saturated or unsaturated C₃-C₂₀ ring;

with at least one organometallic compound of formula (VIII)



where

M¹ is an alkali metal, an alkaline earth metal or a metal of group 13 of the Periodic Table;

R⁷ is hydrogen, C₁-C₁₀-alkyl, C₃-C₁₀-cycloalkyl, C₆-C₁₅-aryl, alkylaryl or arylalkyl each having from 1 to 10 carbon atoms in the alkyl part and from 6 to 20 carbon atoms in the aryl part;

R⁸ and R⁹ are each hydrogen, halogen, C₁-C₁₀-alkyl, C₃-C₁₀-cycloalkyl, C₆-C₁₅-aryl, alkylaryl, arylalkyl or alkoxy each having from 1 to 10 carbon atoms in the alkyl part and from 6 to 20 carbon atoms in the aryl part;

r is an integer from 1 to 3;

and

s and t are integers from 0 to 2, where the sum r+s+t corresponds to the valence of M³;

wherein the organometallic compounds of formula (VIII) comprise at least one branched alkyl radical comprising up to 10 carbon atoms, or a cycloalkyl radical comprising from 3 to 10 carbon atoms;

to form a metallocene compound product which is added to the modified support, wherein the process is carried out in a suspension, and the suspension medium is removed by evaporation after the metallocene compound of formula (I) is reacted with the at least one organometallic compound of formula (VIII).

17. (New) The process for preparing a catalyst solid for olefin polymerization as claimed in claim 16, wherein the finely divided support comprises functional groups, and the finely divided support and an amount of the aluminoxane are selected so that essentially the total amount of the aluminoxane used has reacted with the functional groups of the finely divided support.
18. (New) The process for preparing a catalyst solid for olefin polymerization as claimed in claim 16, wherein the organometallic compound of formula (VIII) is triisobutylaluminum, diisobutylaluminum hydride or a mixture of the two compounds.
19. (New) A catalyst solid obtained by the process as claimed in claim 16.

20. (New) A catalyst system for polymerizing olefins, comprising said catalyst solid as claimed in claim 19.
21. (New) A process for polymerizing olefins which comprises using the catalyst system as claimed in claim 20.
22. (New) A process for preparing a catalyst solid for olefin polymerization as claimed in claim 17, wherein the organometallic compound of formula (VIII) which is used is triisobutylaluminum, diisobutylaluminum hydride or a mixture of the two compounds.
23. (New) A catalyst solid obtained by the process as claimed in claim 22.
24. (New) A process for polymerizing olefins which comprises using the catalyst system as claimed in claim 23.